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TITLE: PHOTOSYNTHETIC BACTERIA-CONTAINING BEADS

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ABSTRACT:

PURPOSE: To obtain the subject beads excellent in preservability, easy to handle and manage, useful as e.g. a pisciculture feed by mixing an aqueous sodium alginate solution with a specific concentration of a photosynthetic bacteria culture solution at a specified proportion followed by dripping the mixture into an aqueous calcium chloride solution.

CONSTITUTION: As photosynthetic bacteris, purple non-sulfur bacteris, e.g. Rhodopseudomonas capsulatus or Rhodospirillum rubrum is cultured in a culture solution to prepare a photosynthetic bacteria culture solution 106-1010/g in microbial concentration, which is, in turn, mixed with an aqueous solution of sodium alginate in the weight ratio of 1:(0.1-10), and the resulting mixture is dripped through a circular fine hole ca. 0.5mm in diameter into an aqueous solution of calcium chloride to effect instantaneous formation of a film on the liquid surface, thus affording the objective beads ca. 3mm in diameter, excellent in preservability, easy to handle and manage, and widely usable as a pisciculture feed or water quality improver, etc.

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